

Patent claims

Modular service device

1. A modular service device (1),
 - having a retaining means (4) for a bearing means (5) which can be coupled thereto;
 - having a housing (2) having module locations (6a-6d);
 - having connection modules (7a-7d) which can each be arranged at the module locations (6a-6d) and are each provided with a connection means for a line which can be connected thereto;
 - having a coding means (9a-9d) per module location (6a-6d) and an opposing coding means (10a-10d) per connection module (7a-7d) for the purpose of providing module location-specific assignment;
 - having a latching means (11) at at least one of the module locations (6a-6d) and an opposing latching means (12) on at least one of the connection modules (7a-7d) for the purpose of providing module location-specific locking and unlocking;
 - having a contact means (16a, 16b), having a longitudinal side, per module location (6a-6d) and an opposing contact means (18) per connection module (7a-7d), it being possible for the contact means (16a, 16b) to make contact with the opposing contact means (18) transversely with respect to its longitudinal side.
2. The modular service device as claimed in claim 1, having an electrical, electromagnetic or electronic device unit (3).
3. The modular service device as claimed in claim 1, having at least one spring-loaded and self-ringing latching element (20) as part of the retaining means (4).

4. The modular service device as claimed in claim 1, having a multi-pole design of at least one of the connection modules (7a-7d).

5. The modular service device as claimed in claim 1, in which the respective connection means is in the form of a screw terminal, a spring-loaded terminal or an insulation displacement contact.

6. The modular service device as claimed in claim 1, in which the coding means (9a-9d) is in the form, individually per module location (6a-6d), of a recess formed by housing sections, and the opposing coding means (10a-10d) is in the form of a bracket element.

7. The modular service device as claimed in claim 1, in which the latching means (11) is in the form of an elastic lock having a barb, and the opposing latching means (12) is in the form of a latch accommodating the barb.

8. The modular service device as claimed in claim 1, in which the contact means (16a, 16b) is in the form of a contact lug or contact pin, and the opposing contact means (18) is in the form of a fork-shaped contact element.

9. The modular service device as claimed in claim 1 and/or 8, having an insulating means (19) which is arranged on the end and/or longitudinal side on the contact means (16a, 16b) and, in particular, covers the contact means (16a, 16b).

10. The modular service device as claimed in claim 9, in which the insulating means (19) is in the form of an insulating bracket, in particular of a plug-in element which can be integrated in the housing (2).